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NOTICE OF ALLOWANCE AND FEE(S) DUE

74384

7590

06/25/2008

Cheng Law Group, PLLC 1100 17th Street, N.W. Suite 503 Washington, DC 20036

EXAMINER					
LE, HOA T					
ART UNIT	PAPER NUMBER				
1704					

DATE MAILED: 06/25/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/559.688	12/06/2005	Hiroya Ishida	MIY-0209	2996

TITLE OF INVENTION: CONDUCTIVE PARTICLE WITH PROTRUSIONS AND ANISOTROPIC CONDUCTIVE MATERIAL THEREFROM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new corr	maintenance fees we respondence address;	rill be and/or	mailed to the current of (b) indicating a separate	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe pa	ee(s) Transmittal. Thi	s certif l paper	icate cannot be used for, such as an assignmen	domestic mailings of the or any other accompanying it or formal drawing, must
74384 Cheng Law Gr 1100 17th Street Suite 503	oup, PLLC , N.W.	/2008		Cer	tificate	of Mailing or Trans	nission deposited with the United c class mail in an envelope above, or being facsimile tte indicated below.
Washington, DC	20036						(Depositor's name)
			-				(Signature)
	_		L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/559,688 TITLE OF INVENTION	12/06/2005 : CONDUCTIVE PART	TICLE WITH PROTRUSI	Hiroya Ishida ONS AND ANISOTRO	PIC CONDUCTIVE	MATE	MIY-0209 ERIAL THEREFROM	2996
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	09/25/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
LE, H	OA T	1794	428-403000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	Indication form and Use of a Customer A TO BE PRINTED ON	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	to 3 registered patentively, gle firm (having as a r agent) and the name torneys or agents. If n e printed. Type) patent. If an assignent assignment. TY and STATE OR C	membes of uno name	p to le is 3lentified below, the document.	cument has been filed for
		categories (will not be pr	1 /		•	1 0	up entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
11	s SMALL ENTITY statu	ıs. See 37 CFR 1.27.	b. Applicant is no lo				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than Office.	the applicant; a regi	stered a	attorney or agent; or the	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				_			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450. Alexandria V	ation is required by 37 C tiality is governed by 35 I application form to the tons for reducing this but iroinia 22313-1450 DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	on is required to obtain on 1.14. This collection is of depending upon the income Chief Information Office Chief Information Office COMPLETED FORMS	r retain a benefit by the estimated to take 12 r lividual case. Any co icer, U.S. Patent and TO THIS ADDRESS	he publ minutes mment Traden	lic which is to file (and is to complete, including its on the amount of tin nark Office, U.S. Depa D.TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents P.O. Box 1450.

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Cheng Law Group, PLLC			LE, HOA T		
1100 17th Street,	Ń.W.			ART UNIT	PAPER NUMBER
Suite 503 Washington, DC 20036				1794 DATE MAILED: 06/25/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 141 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 141 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/559,688	ISHIDA ET AL.
Notice of Allowability	Examiner	Art Unit
	H. T. Le	1794
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed Mar</u>	<u>rch 31, 2008</u> .	
2. ☑ The allowed claim(s) is/are <u>1-10</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) including changes required by the Notice of Draftspers	· · · · · · · · · · · · · · · · · · ·	948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application
 Notice of Preferences Sited (110 332) Notice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	te
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	<u>_</u>	ent of Reasons for Allowance
of Biological Material	9.	

Application/Control Number: 10/559,688 Page 2

Art Unit: 1794

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: None of the prior art references, singly or combined, teaches or suggests conductive particles comprising three components (1) base particles, (2) conductive particulate core to form projections on the base particles, and (3) a conductive coating over the projected base particles wherein the conductive material of the core is different from the conductive material of the coating.

- 2. The Japanese patents JP-04-03692 and JP 08-55514 teach electroconductive particles comprising a base particle, protrusions formed by smaller particles adhered to the surface of the base particle, and a coating of conductive material. However, the particles formed on the surface of the base particles (i.e. forming protrusions) are not conductive material as required in the instant claims.
- 3. The Wakiya patent (US 7,291,393) teaches conductive particles comprising a core material, projections and a coating film. However, the projections are formed by the uneven surface of the core material not from particulate material formed on the surface of the core. The Oyamada patent (US 6,770,369) teaches conductive particles with projections; however, the projections also form the coating on the particles; that is the conductive material for the projections and the conductive material of the coating are the same.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 10/559,688 Page 3

Art Unit: 1794

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511.

The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

_/H. Thi Le/ H. (Holly) T. Le Primary Examiner Art Unit 1794

June 18, 2008